



ABC[®]3

High Performance Self-Polishing Antifouling Coating

Data Sheet: 0003

Supersedes: 04/08

Revised: 08/12

Product Data

Features

- ◆ Contains high levels of cuprous oxide
- ◆ Unique self-polishing mechanism prevents attachment of fouling organisms
- ◆ Provides long-life protection, even under severe fouling conditions
- ◆ Smoothing action helps reduce drag resistance
- ◆ Suitable for most vessels in a wide range of operating environments

Typical Uses

ABC[®]3 is used on coating hulls of pleasure craft, seagoing vessels, work boats and barges. ABC[®]3 is used where long-life fouling protection in severe service is required. ABC[®]3 is tin free and suitable where regulations ban or restrict the use of organotin compounds and also where maximum compatibility with a wide range of bottom systems or other special surfaces is required.

Not suitable for use on aluminium craft, stern legs or outboards.

Systems:

Suitable primers include *Sigmacover 525* or *Sigma Vikote 18*. Refer data sheet for above coating for suitable system or contact PPG for recommendation.

Application Equipment

The following equipment is listed as a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Airless spray – Standard airless spray equipment, such as Graco Bulldog Hydra-Spray or larger with a 0.53 to 0.63mm fluid tip.

Conventional Spray – Industrial equipment such as DeVilbiss MBC or JGA spray gun. Separate regulators for air and fluid pressure, mechanical pot agitator and a moisture and oil trap in the main air supply line are recommended.

Brush – Suitable

Roller – May require up to 5% 304 Thinner in hot windy conditions. Additional coats may be required by brush and roller to obtain correct film thickness.

Mixer – Use power mixer powered by an air motor or an explosion proof electric motor.

Physical Data

Finish	Flat
Colours	Black, Red and Blue
Substrate	Suitably primed steel, fibreglass and timber.
Components	1
Dry film thickness	100 - 150µm per coat

Note: Film thickness control is critical to the performance of the coating, as service life is a direct function of film thickness.

Wet Film Thickness	190 – 280 µm per coat
Number of coats	2 or 3
Volume solids	53% (calculated)
Calculated coverage	5.3 m ² /L at 100µm DFT
Allow for application losses, surface irregularities etc.	
Application methods	Spray, brush or roller
Min substrate temp	3 C above dew point

Drying times at 100µm in hours

	30°C	20°C	10°C	0°C
Dry to recoat (minimum)	3	5	10	20
Before launch (minimum)	4	6	12	20
Maximum recoat time	Not restricted			
Maximum before launch	Not restricted			

Drying times are dependent on temperature, ventilation, relative humidity, coating thickness etc.

Thinner	Thinning is not recommended
Cleaner	304 Thinner
Flash points (closed cup)	
ABC [®] 3	12°C
Thinner 21-06	25°C
Packaging	4L, 10L containers
Shipping weight	Approximately 8kg for 4L, 20kg for 10L
Shelf life	2 years from shipment date when stored indoors in unopened, original containers at 5 to 40°C

Cleaning after Service:

Non-fouled surfaces – High pressure fresh water wash, minimum 3000 psi.

Existing fouled surfaces – Remove fouling by scraping and / or sand sweeping. Loose paint should be removed by high-pressure fresh water wash. Tightly adhering anticorrosive and antifouling coating may remain.

CAUTION:

Improper use and handling of this product can be hazardous to health.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapour concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measure that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT

This product contains certain active materials which can have detrimental effects on marine life. DO NOT contaminate waterways with paint, dust and scrapings or with used containers.

Do not empty into drains. Take precautionary measures against static discharges. For specific information on hazardous ingredients, required ventilation, possible consequences of contact, exposure and safety measure see Material Safety Data Sheet.

Application Procedure:

Surface Preparation

Coating performance in general is proportional to the degree of surface preparation. Refer to the PDS for the anticorrosive coating being applied. Depending on the conditions of hull and existing antifouling, surface cleaning will vary from high pressure fresh water cleaning to abrasive blasting. Apply over suitable primer system or clean, intact, existing bottom system.

Application Warning

NOTE – If applying ABC®3 over epoxy anticorrosive coatings, apply first coat of antifouling before epoxy has cured hard. Apply ABC®3 when epoxy is tack free but still soft to fingernail. Refer to epoxy product data sheet for tack free time. Failure to apply antifouling coating while anticorrosive epoxy is still soft may result in poor adhesion between coatings and delamination of antifouling from the anticorrosive. If epoxy has cured too hard apply another coat of epoxy to obtain a soft film before applying ABC®3.

Application Procedure

1. Clean all application equipment with 304 Thinner before use.
2. Stir material thoroughly and continue stirring during application to insure antifouling pigment suspension.
3. Thinning is not recommended. Use up to 5% in hot, windy conditions.
4. Apply a wet coat in even, parallel passes; overlap each pass 50 percent to avoid pinholes, bare areas or holidays. Give special attention to weld seams, rough or badly pitted areas. If required, cross spray at right angles.
5. Allow 5 hours drying time at 20 °C before applying second coat.
6. Before immersing, allow ABC®3 to dry at least 6 hours at 20 °C.
7. Clean application equipment immediately after use.

Caution

This product is flammable. Keep away from heat and open flame. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to health.

1. Circulate adequate fresh air continuously during application and drying.
2. Use fresh air masks and explosion proof equipment.
3. Prohibit all flames, sparks, welding and smoking.

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